

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/667,859 DATE: 10/12/2000  
 TIME: 10:18:15

Input Set : A:\Pto.amc  
 Output Set: N:\CRF3\10122000\I667859.raw

3 <110> APPLICANT: Kubin, Marek Z  
 4 Goodwin, Raymond G  
 6 <120> TITLE OF INVENTION: NK Cell Activation Inducing Ligand (NAIL) DNA and  
 7 Polypeptides and UsesThereof  
 9 <130> FILE REFERENCE: 1010-US  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/667,859  
 C--> 12 <141> CURRENT FILING DATE: 2000-09-20  
 14 <150> PRIOR APPLICATION NUMBER: 60/079,845  
 15 <151> PRIOR FILING DATE: 1998-03-27  
 17 <150> PRIOR APPLICATION NUMBER: 60/096,750  
 18 <151> PRIOR FILING DATE: 1998-08-17  
 20 <160> NUMBER OF SEQ ID NOS: 10  
 22 <170> SOFTWARE: PatentIn Ver. 2.0  
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 25 <211> LENGTH: 1095  
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 27 <213> ORGANISM: Homo sapiens  
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 32 ccaaacagca tacagacgaa ggttgacagc attgcatgga agaagttgct gccctcacaa 180  
 33 aatggatttc atcacatatt gaagtgggag aatggctott tgccttccaa tacttccaat 240  
 34 gatagattca gttttatagt caagaacttg agtcttctca tcaaggcagc tcagcagcag 300  
 35 gacagtggcc tctactgcct ggaggtcacc agtatacttg gaaaagttca gacagccacg 360  
 36 ttccagggtt ttgtatttga taaagttgag aaaccccgcc tacaggggca ggggaagatc 420  
 37 ctggacagag ggagatgcc aagtggctctg tcttgccttg tctccaggga tggcaatgtg 480  
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 43 gaatttttga caatttacga agatgtcaag gatctgaaaa ccaggagaaa tcacgagcag 840  
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 46 tctggatcca ggaagaggaa ccacagcctt tccttcaata gcactatcta tgaagtgtt 1020  
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 60 20 25 30  
 62 Ser Gly Val Pro Leu Gln Leu Gln Pro Asn Ser Ile Gln Thr Lys Val

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TECH CENTER 1600/2000

## RAW SEQUENCE LISTING

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Input Set : A:\Pto.amc

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72          85          90          95
74 Ala Gln Gln Gln Asp Ser Gly Leu Tyr Cys Leu Glu Val Thr Ser Ile
75          100          105          110
77 Ser Gly Lys Val Gln Thr Ala Thr Phe Gln Val Phe Val Phe Asp Lys
78          115          120          125
80 Val Glu Lys Pro Arg Leu Gln Gly Gln Gly Lys Ile Leu Asp Arg Gly
81          130          135          140
83 Arg Cys Gln Val Ala Leu Ser Cys Leu Val Ser Arg Asp Gly Asn Val
84 145          150          155          160
86 Ser Tyr Ala Trp Tyr Arg Gly Ser Lys Leu Ile Gln Thr Ala Gly Asn
87          165          170          175
89 Leu Thr Tyr Leu Asp Glu Glu Val Asp Ile Asn Gly Thr His Thr Tyr
90          180          185          190
92 Thr Cys Asn Val Ser Asn Pro Val Ser Trp Glu Ser His Thr Leu Asn
93          195          200          205
95 Leu Thr Gln Asp Cys Gln Asn Ala His Gln Glu Phe Arg Phe Trp Pro
96          210          215          220
98 Phe Leu Val Ile Ile Val Ile Leu Ser Ala Leu Phe Leu Gly Thr Leu
99 225          230          235          240
101 Ala Cys Phe Cys Val Trp Arg Arg Lys Arg Lys Glu Lys Gln Ser Glu
102          245          250          255
104 Thr Ser Pro Lys Glu Phe Leu Thr Ile Tyr Glu Asp Val Lys Asp Leu
105          260          265          270
107 Lys Thr Arg Arg Asn His Glu Gln Glu Gln Thr Phe Pro Gly Gly Gly
108          275          280          285
110 Ser Thr Ile Tyr Ser Met Ile Gln Ser Gln Ser Ser Ala Pro Thr Ser
111          290          295          300
113 Gln Glu Pro Ala Tyr Thr Leu Tyr Ser Leu Ile Gln Pro Ser Arg Lys
114 305          310          315          320
116 Ser Gly Ser Arg Lys Arg Asn His Ser Pro Ser Phe Asn Ser Thr Ile
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134 tgcacggcag agagtctggt ggggtggagg ggctggcctg gccctctgt cctgtggaaa 180

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Input Set : A:\Pto.amc

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137 caaacagcat acagacgaag gttgacagca ttgcatggaa gaagttgctg ccctcacaaa 360
138 atggatttca tcacatatgg aagtgggaga atggctcttt gccttccaat acttccaatg 420
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144 acgaggaggt tgacattaat ggcactcaca catatacttg caatgtcagc aatcctgtta 780
145 gctgggaaa ccacaccctg aatctcactc aggactgtca gaatgccct caggaattca 840
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147 cctgcttctg tgtgtggagg agaaagagga aggagaagca gtcagagacc agtcccaagg 960
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175 <211> LENGTH: 398
176 <212> TYPE: PRT
177 <213> ORGANISM: Mus musculus
179 <400> SEQUENCE: 4
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183 His Gln Gly Gln Asp Cys Pro Asp Ser Ser Glu Glu Val Val Gly Val
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186 Ser Gly Lys Pro Val Gln Leu Arg Pro Ser Asn Ile Gln Thr Lys Asp
187 35 40 45

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Input Set : A:\Pto.amc

Output Set: N:\CRF3\10122000\I667859.raw

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192 Glu Ile Leu Asn Trp Tyr Asn Asp Gly Pro Ser Trp Ser Asn Val Ser
193 65      70      75      80
195 Phe Ser Asp Ile Tyr Gly Phe Asp Tyr Gly Asp Phe Ala Leu Ser Ile
196      85      90      95
198 Lys Ser Ala Lys Leu Gln Asp Ser Gly His Tyr Leu Leu Glu Ile Thr
199      100      105      110
201 Asn Thr Gly Gly Lys Val Cys Asn Lys Asn Phe Gln Leu Leu Ile Leu
202      115      120      125
204 Asp His Val Glu Thr Pro Asn Leu Lys Ala Gln Trp Lys Pro Trp Thr
205      130      135      140
207 Asn Gly Thr Cys Gln Leu Phe Leu Ser Cys Leu Val Thr Lys Asp Asp
208 145      150      155      160
210 Asn Val Ser Tyr Ala Phe Trp Tyr Arg Gly Ser Thr Leu Ile Ser Asn
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214      180      185      190
216 His Thr Tyr Thr Cys Asn Val Ser Asn Arg Ala Ser Trp Ala Asn His
217      195      200      205
219 Thr Leu Asn Phe Thr His Gly Cys Gln Ser Val Pro Ser Asn Phe Arg
220      210      215      220
222 Phe Leu Pro Phe Gly Val Ile Ile Val Ile Leu Val Thr Leu Phe Leu
223 225      230      235      240
225 Gly Ala Ile Ile Cys Phe Cys Val Trp Thr Lys Lys Arg Lys Gln Leu
226      245      250      255
228 Gln Phe Ser Pro Lys Glu Pro Leu Thr Ile Tyr Glu Tyr Val Lys Asp
229      260      265      270
231 Ser Arg Ala Ser Arg Asp Gln Gln Gly Cys Ser Arg Ala Ser Gly Ser
232      275      280      285
234 Pro Ser Ala Val Gln Glu Asp Gly Arg Gly Gln Arg Glu Leu Asp Arg
235      290      295      300
237 Arg Val Ser Glu Val Leu Glu Gln Leu Pro Gln Gln Thr Phe Pro Gly
238 305      310      315      320
240 Asp Arg Gly Thr Met Tyr Ser Met Ile Gln Cys Lys Pro Ser Asp Ser
241      325      330      335
243 Thr Ser Gln Glu Lys Cys Thr Val Tyr Ser Val Val Gln Pro Ser Arg
244      340      345      350
246 Lys Ser Gly Ser Lys Lys Arg Asn Gln Asn Tyr Ser Leu Ser Cys Thr
247      355      360      365
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## RAW SEQUENCE LISTING

DATE: 10/12/2000

PATENT APPLICATION: US/09/667,859

TIME: 10:18:15

Input Set : A:\Pto.amc

Output Set: N:\CRF3\10122000\I667859.raw

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264 ctttccaaca tacagacaaa agatgtttct gttcaatgga agaagacaga acaggggtca 180
265 cacagaaaaa ttgagatcct gaattgggtat aatgatgggc ccagttgggc aaatgtatct 240
266 tttagtgata tctatgggtt tgattatggg gattttgctc ttagtatcaa gtcagctaag 300
267 ctgcaagaca gtgtcacta cctgtctggag atcaccaaca caggcggaag agtgtgcaat 360
268 aagaacttcc agcttcttat acttgatcat gttgagaccc ctaacctgaa ggccccagtgg 420
269 aagccctgga ctaatgggac ttgtcaactg tttttgtcct gcttgggtgac caaggatgac 480
270 aatgtgagct acgccttttg gtacagaggg agcactctga tctccaatca aaggaatagt 540
271 acccactggg agaaccagat tgacgccagc agcctgcaca catacacctg caacgttagc 600
272 aacagagcca gctgggcaaa ccacaccctg aacttcaccc atggctgtca aagtgtccct 660
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275 aaggaacctt tgacaatata tgaatatgtc aaggactcac gagccagcag ggatcaacaa 840
276 gggacaaaga gaattggaca ggcgtgttgc tgaggtgctg gagcagttgc cacagcagac 900
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278 atcacaaaga aaatgtacag tatattcagt agtccagcct tccaggaagt ctggatccaa 1020
279 gaagaggaac cagaactatt ccttaagtgt taccgtgtac gaggaggttg gaaacccatg 1080
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305 Ser Gly Val Pro Leu Gln Leu Gln Pro Asn Ser Ile Gln Thr Lys Val
306 35 40 45
308 Asp Ser Ile Ala Trp Lys Lys Leu Leu Pro Ser Gln Asn Gly Phe His
309 50 55 60
311 His Ile Leu Lys Trp Glu Asn Gly Ser Leu Pro Ser Asn Thr Ser Asn
312 65 70 75 80
314 Asp Arg Phe Ser Phe Ile Val Lys Asn Leu Ser Leu Leu Ile Lys Ala
315 85 90 95
317 Ala Gln Gln Gln Asp Ser Gly Leu Tyr Cys Leu Glu Val Thr Ser Ile
318 100 105 110
320 Ser Gly Lys Val Gln Thr Ala Thr Phe Gln Val Phe Val Phe Asp Lys
321 115 120 125

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VERIFICATION SUMMARY

DATE: 10/12/2000

PATENT APPLICATION: US/09/667,859

TIME: 10:18:16

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Output Set: N:\CRF3\10122000\I667859.raw

L:11 M:270 C: Current Application Number differs, Replaced Application Number  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/667,859

DATE: 10/02/2000

TIME: 14:38:42

Input Set : A:\1010seq.txt

Output Set: N:\CRF3\10022000\I667859.raw

3 <110> APPLICANT: Kubin, Marek Z  
 4 Goodwin, Raymond G  
 6 <120> TITLE OF INVENTION: NK Cell Activation Inducing Ligand (NAIL) DNA and  
 7 Polypeptides and UsesThereof  
 9 <130> FILE REFERENCE: 1010-US  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/667,859  
 C--> 12 <141> CURRENT FILING DATE: 2000-09-20  
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 15 <151> PRIOR FILING DATE: 1998-03-27  
 17 <150> PRIOR APPLICATION NUMBER: 60/096,750  
 18 <151> PRIOR FILING DATE: 1998-08-17  
 20 <160> NUMBER OF SEQ ID NOS: 10  
 22 <170> SOFTWARE: PatentIn Ver. 2.0

**Does Not Comply  
 Corrected Diskette Needed**

## ERRORED SEQUENCES

578 <210> SEQ ID NO: 10  
 579 <211> LENGTH: 243  
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 594 50 55 60  
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 612 145 150 155 160  
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 615 165 170 175  
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629 225          230          235          240
631 Leu Leu Thr
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/667,859

DATE: 10/02/2000

TIME: 14:38:43

Input Set : A:\1010seq.txt

Output Set: N:\CRF3\10022000\I667859.raw

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:636 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:10

M:332 Repeated in SeqNo=10

Serial Number: 09/667,859

CRF Processing Date: 10/27/00

Edited by: A

Verified by: A

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- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: #3 10/27/00
- ☐ Edited the Current Application Data section with the actual current number. The number input by the applicant was ☐ the prior application data, or ☐ other
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:
- ☐ Deleted extra, invalid, headings used by an applicant, specifically:
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as
- ☐ Inserted mandatory headings, specifically:
- ☐ Corrected an obvious error in the response, specifically:
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:
- ☐ Other:

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.